

MPAC

MYERS PRESSURE ACTIVATED CONTROL Liquid Level and Pump Control System



MYERS MPAC PRESSURE ACTIVATED CONTROL IS THE MOST RELIABLE AND SAFEST CONTROL SYSTEM AVAILABLE TO OPERATE ALL HP SIZES OF PUMPS. The diaphragm operated liquid level controller functions with a sealed and protected air tube system, requiring no electricity to operate. All MPAC control systems are naturally intrinsically safe for maximum safety. The modular control board is easy to operate with simple adjustment slide switches for liquid level adjustments. Call your Myers distributor, or the Myers Ohio sales office at 419-289-1144 for more details.

Catalog Number	Description
MPAC-1	Simplex Control System
MPAC-2	Duplex Control System
MPAC-3	Triplex Control System
MPAC-4	Quadruplex Control System

ADVANTAGES BY DESIGN

- Cost effective, intrinsically safe.
- Pressure activated level control (no lateral movement in wet well).
- Dependable liquid level control to twenty feet.
- Easy liquid level adjustments with slide switches in control box.
- No float adjustment or involvement in the wetwell.
- Visual level and contact status displays.
- Available in 1 - 4 pump systems.
- Operates any HP size of pump.
- Pump alternator.
- Intrinsically safe relays.
- Reduced enclosure size.
- 4 auxiliary contacts.

WHERE INNOVATION MEETS TRADITION

MPAC

MYERS PRESSURE ACTIVATED CONTROL

Liquid Level and Pump Control System

SPECIFICATIONS

GENERAL - The level controller shall be of a solid-state design incorporating an alternating relay with lead-lag selection capabilities, field adjustable lag pump delay timer, 5' to 20' field selectable measurement range, nonelectric submersible pressure bell, easily adjustable operating set-points, visual level indication, 4-20mA non-isolated linear output signal, and six triac output contacts with status indication.

ALTERNATING RELAY W/LEAD-LAG SELECTION - The controller must include an integral alternator relay. Alternation of the lead pump will occur after each cycle is completed. Unit must also be capable of manual lead pump selection via terminal jumpers on the circuit board or by externally wired switch.

LAG PUMP TIME DELAY - The controller must include an adjustable lag pump time delay relay. The time delay will keep both motor outputs from energizing simultaneously after a power failure and will be easily adjustable from 0 to 30 seconds.

FIELD SELECTABLE RANGE - The controller must be capable of setting the overall level measurement range. Ranges shall include 0-5 feet, 0-10 feet, 0-15 feet, and 0-20 feet and be selectable via dip-switches located on the controller and will include visual indication of the range selected.

NON-ELECTRIC SUBMERSIBLE PRESSURE BELL - The pressure bell housing shall be manufactured of PVC and have a replaceable Nitrile™ rolling diaphragm to separate the liquid from the compressed air. No screws or bolts shall be permitted as part of the pressure-bell assembly. The submersible pressure bell shall be a nonelectric and transmit a pressure only signal to the controller. No voltage from the level-sensing device shall enter the wet well. The pressure signal shall be connected the controller via flexible pressure tubing.

OPERATING SET-POINTS - The controller shall include adjustable set-point operators. The operators shall be linear type switches and be adjustable for 0 to 100% of the measurement range selected.

VISUAL LEVEL INDICATION - The controller shall include visual level indication. The multiplier LED level indicator shall show, from 0 to 100%, the liquid level as measured by the submersible pressure bell.

4-20mA OUTPUT - The controller shall include a non-isolated 4-20mA analog output for remote level indication, PLC, or VFD control as needed. The output signal will be based upon the range selected. (4mA = 0% and 20mA = 100% of the selected range).

OUTPUT CONTACTS & FIELD CONNECTIONS - The controller shall include six triac output contacts. The output contacts shall be rated a minimum of .5 amps @ 120VAC. Each output contact shall have a visual status indicator, (red = de-energized and green = energized), visible from the front of the unit. Terminals for field connections shall be plug-on types for ease of installation and service.

DIMENSIONS

